

CLAIMS

What is claimed is:

1. An air induction system comprising:
an air induction body;
a speaker supported about said air induction body;
a control unit in communication with said speaker for controlling its output;
and
an alternator communicating a reference signal to said control unit.
2. The air induction system of claim 1 wherein said reference signal is an alternating current from said alternator.
3. The air induction system of claim 2 further including a rectifier to rectify said reference signal.
4. The air induction system of claim 3 wherein said rectifier converts said reference signal to a digital signal.
5. The air induction system of claim 4 wherein said rectifier comprises a diode.
6. The air induction system of claim 1 further including an error microphone in communication with said speaker and said control unit.
7. The air induction system of claim 1 further including a throttle position sensor in communication with said control unit.
8. The air induction system of claim 1 further including a mouth operatively connected to said air induction body.

9. The air induction system of claim 1 wherein said speaker is at least partially disposed in said mouth.

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10. An air induction system comprising:
an air induction body;
a speaker supported about said air induction body;
a control unit in communication with said speaker for controlling its output;
an error microphone in communication with said speaker and said control unit;
a throttle position sensor in communication with said control unit; and
an alternator communicating a reference signal to said control unit.
11. The air induction system of claim 10 wherein said reference signal is an alternating current from said alternator.
12. The air induction system of claim 11 further including a rectifier to rectify said reference signal.
13. The air induction system of claim 12 wherein said rectifier converts said reference signal to a digital signal.
14. The air induction system of claim 13 wherein said rectifier comprises a diode.
15. The air induction system of claim 10 further including an error microphone in communication with said speaker and said control unit.
16. The air induction system of claim 10 further including a throttle position sensor in communication with said control unit.
17. The air induction system of claim 10 further including a mouth operatively connected to said air induction body.

18. The air induction system of claim 10 wherein said speaker is at least partially disposed in said mouth.

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19. A method of noise attenuation comprising the steps of:
- receiving a reference signal from an alternator;
 - communicating the reference signal to a control unit; and
 - generating a noise attenuating signal from the control unit based on the reference signal.
20. The method of claim 19 further including the step of rectifying the reference signal into a digital signal.

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